

ABSTRACT OF THE DISCLOSURE

An integrated ion focusing and gating lens for use in an ion trap mass spectrometer includes first and second members of combined generally cylindrical configuration with the members focusing an ion beam along an axis of the generally cylindrical configuration when biased with the same voltage on each member, and the members deflecting an ion beam when the members are biased with different voltages. In a preferred embodiment, the first and second members are identical in configuration.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100